

**LISTING OF THE CLAIMS**

1-17. (cancelled)

18. (new) A method of creating a composite video signal, the method comprising:

generating a synchronization signal that comprises a vertical  
synchronization timing;

acquiring a first video signal, synchronized according to the  
synchronization signal, the first video signal comprising a first sequence of  
frames, and each frame comprising an even field and an odd field;

acquiring a second video signal, synchronized according to the  
synchronization signal, the second video signal comprising a second  
sequence of frames, and each frame comprising an even field and an odd  
field;

inserting into the composite video signal a frame comprising the even field  
of the current frame of the first video signal and the odd field of the  
current frame of the second video signal; and

compressing the composite video signal.

19. (new) The method of claim 18, comprising recording the compressed composite video  
signal to a recording medium.

20. (new) The method of claim 18, comprising transmitting the compressed composite video  
signal.

21. (new) A method of processing a composite video signal comprising a sequence of frames,  
each frame comprising an even field and an odd field, the method comprising:

acquiring the composite video signal; and

for an input frame of the composite video signal, inserting into a first output video signal a first frame based upon the even field of the input frame and inserting into a second output video signal a second frame based upon the odd field of the input frame.

5 22. (new) The method of claim 21, wherein compression has been applied to the composite video signal, the method comprising decompressing the compressed composite video signal.

23. (new) The method of claim 21, comprising using interpolation to supply an odd field to the first frame and an even field to the second frame.

24. (new) The method of claim 21, wherein acquiring the composite video signal comprises  
10 retrieving the video signal from a recording medium.

25. (new) The method of claim 21, wherein acquiring the composite video signal comprises receiving a transmitted composite video signal.

26. (new) An apparatus for processing video signals, comprising:

a synchronization signal generator;

15 a video composition section, coupled to the synchronization signal generator, which

accepts as input a first video signal, synchronized according to a synchronization signal produced by the synchronization signal generator and comprising a first sequence of frames, each frame of the first video signal comprising an even field and an odd field,

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accepts as input a second video signal, synchronized according to the synchronization signal produced by the synchronization signal generator and comprising a second sequence of frames,

each frame of the second video signal comprising an even field  
and an odd field, and

inserts into an output composite video signal a frame  
comprising the even field of the current frame of the first video  
signal and the odd field of the current frame of the second  
video signal; and

a compression section, coupled to the output of the video composition  
section, which accepts as input the composite video signal, compresses the  
composite video signal, and provides the compressed composite video  
signal as an output.

27. (new) The apparatus of claim 26, comprising:

a recording medium; and

a recording section coupled to the output of the compression section and  
configured to record to the recording medium, the recording section  
recording the compressed composite video signal to the recording  
medium.

28. (new) The apparatus of claim 26, comprising:

a first camera, coupled to the video composition section and configured to  
provide the first video signal; and

a second camera, coupled to the video composition section and configured  
to provide the second video signal.

29. (new) An apparatus for processing video signals, comprising:

a video decomposition section, which

accepts an input composite video signal comprising a sequence of frames, each frame comprising an even field and an odd field,

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inserts into a first output video signal a first frame derived from the even field of a frame of the composite video signal, and

inserts into a second output video signal a second frame derived from the odd field of the frame of the composite video signal.

30. (new) The apparatus of claim 29, comprising an interpolation section, wherein each of the  
10 first frame and the second frame comprises an even field and an odd field, and the interpolation section uses interpolation to provide an odd field that is added to the first frame and an even field that is added to the second frame.

31. (new) The apparatus of claim 29, comprising a decompression section coupled to the  
15 video decomposition section, wherein the decompression section accepts an input compressed composite video signal and provides, uncompressed, the composite video signal input to the video decomposition section.

32. (new) The apparatus of claim 31, comprising:

a recording medium; and

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a reader coupled to the decompression section and configured to read from the recording medium, the reader acquiring the compressed composite video signal from the recording medium.